



[4910-13-P]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2016-7003; Directorate Identifier 2016-CE-015-AD]

RIN 2120-AA64

Airworthiness Directives; PILATUS AIRCRAFT LTD. Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for all PILATUS AIRCRAFT LTD. Models PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes that would supersede AD 2014-22-01. This proposed AD results from mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as a need to incorporate new revisions into the Limitations section, Chapter 4, of the FAA-approved maintenance program (e.g., maintenance manual). We are issuing this proposed AD to require actions to address the unsafe condition on these products.

DATES: We must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: (202) 493-2251.
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- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE, Washington, DC 20590.

- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE, Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this proposed AD, contact PILATUS AIRCRAFT LTD., Customer Service Manager, CH-6371 STANS, Switzerland; telephone: +41 (0) 41 619 33 33; fax: +41 (0) 41 619 73 11; Internet: <http://www.pilatus-aircraft.com> or email: SupportPC12@pilatus-aircraft.com You may review copies of the referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-7003; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this proposed AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (telephone (800) 647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; email: doug.rudolph@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the ADDRESSES section. Include “Docket No. FAA-2016-7003; Directorate Identifier 2016-CE-015-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD because of those comments.

We will post all comments we receive, without change, to <http://regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

On October 20, 2014, we issued AD 2014-22-01, Amendment 39-18005 (79 FR 67343, November 13, 2014) (“AD 2014-22-01”). That AD required actions intended to address an unsafe condition on all PILATUS AIRCRAFT LTD. Models PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes and was based on mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country.

Since we issued AD 2014-22-01, PILATUS AIRCRAFT LTD. has issued revisions to the Limitations section of the airplane maintenance manual to include repetitive inspections of the main landing gear (MLG) attachment bolts.

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Community, has issued AD No. 2016-0083, dated April 28, 2016 (referred to after this as “the MCAI”), to correct an unsafe condition for the specified products. The MCAI states:

The airworthiness limitations are currently defined and published in the Pilatus PC-12 Aircraft Maintenance Manual(s) (AMM) under Chapter 4, Structural, Component and Miscellaneous – Airworthiness Limitations Section (ALS) documents. The limitations contained in these documents have been identified as mandatory for continued airworthiness.

Failure to comply with these instructions could result in an unsafe condition.

EASA issued AD 2014-0170 requiring the actions as specified in ALS, Chapter 4 of AMM report 02049 issue 28, for PC-12, PC-12/45 and PC-12/47 aeroplanes, and Chapter 4 of AMM report 02300 issue 11, for PC-12/47E aeroplanes.

Since that AD was issued, Pilatus issued Chapter 4 of PC-12 AMM report 02049 issue 31, and Chapter 4 of PC-12 AMM report 02300 issue 14 (hereafter collectively referred to as ‘the applicable ALS’ in this AD), to incorporate new six-year and ten-year inspection intervals for several main landing gear (MLG) attachment bolts, and an annual inspection interval for the MLG shock absorber attachment bolts, which was previously included in the AMM Chapter 5 annual inspection. After a further review of the in-service data, Pilatus issued Service Letter (SL) 186, extending the special compliance time applicable for the MLG bolts inspection.

For the reasons described above, this AD retains the requirements of EASA AD 2014-0170, which is superseded, and requires the accomplishment of the new maintenance tasks, as described in the applicable ALS.

You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-7003.

Related Service Information under 1 CFR part 51

PILATUS AIRCRAFT LTD. has issued Structural, Component and Miscellaneous – Airworthiness Limitations, document 12-A-04-00-00-00A-000A-A, dated September 28, 2015, and Structural and Component Limitations – Airworthiness Limitations, document 12-B-04-00-00-00A-000A-A, dated September 28, 2015. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section of this NPRM.

FAA's Determination and Requirements of the Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with this State of Design Authority, they have notified us of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.

Costs of Compliance

We estimate that this AD will affect 770 products of U.S. registry. We also estimate that it would take about 1.5 work-hours per product to comply with the basic requirements of this proposed AD. The average labor rate is \$85 per work-hour. Based on these figures, we estimate the cost of this proposed AD on U.S. operators to be \$98,175, or \$127.50 per product. This breaks down as follows:

- Incorporating new revisions into the Limitations section, Chapter 4, of the FAA-approved maintenance program (e.g., maintenance manual): .5 work-hour for a fleet cost of \$32,725, or \$42.50 per product.
- New inspections: MLG attachment bolts: 1 work-hour with no parts cost for fleet cost of \$65,450 or \$85 per product.

In addition, we estimate that any necessary corrective actions (on-condition costs) that must be taken based on the proposed inspections, would take about 1 work-hour and require parts costing approximately \$100 for a cost of \$185 per product. We have no way of determining the number of products that may need these necessary corrective actions. This breaks down as follows:

The only costs that would be imposed by this proposed AD over that already required by AD 2014-22-01 is insertion of the revised Limitation section and the MLG attachment bolts inspection and replacement as necessary.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs," describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in "Subtitle VII, Part A, Subpart III, section 44701: General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by removing Amendment 39-18005 (79 FR 67343, November 13, 2014), and adding the following new AD:

PILATUS AIRCRAFT LTD.: Docket No. FAA-2016-7003; Directorate Identifier 2016-CE-015-AD.

(a) Comments Due Date

We must receive comments by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

This AD replaces AD 2014-22-01, 39-18005 (79 FR 67343, November 13, 2014).

(c) Applicability

This AD applies to PILATUS AIRCRAFT LTD. Models PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes, all manufacturer serial numbers (MSNs), certificated in any category.

(d) Subject

Air Transport Association of America (ATA) Code 5: Time Limits.

(e) Reason

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as a need to incorporate new revisions into the Limitations section, Chapter 4, of the

FAA-approved maintenance program (e.g., maintenance manual). The limitations were revised to include repetitive inspections of the main landing gear (MLG) attachment bolts. These actions are required to ensure the continued operational safety of the affected airplanes.

(f) Actions and Compliance

Unless already done, do the actions in paragraphs (f)(1) through (f)(6) of this AD:

(1) Before further flight after [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER] (the effective date of this AD), insert the following revisions into the Limitations section of the FAA-approved maintenance program (e.g., maintenance manual):

(i) STRUCTURAL, COMPONENT AND MISCELLANEOUS – AIRWORTHINESS LIMITATIONS, Data module code 12-A-04-00-00-00A-000A-A, dated September 28, 2015, of the Pilatus Model type – PC-12, PC-12/45, PC-12/47, Aircraft Maintenance Manual (AMM), Document No. 02049, 12-A-AM-00-00-00-I, revision 31, dated November 10, 2015; and

(ii) STRUCTURAL AND COMPONENT LIMITATIONS – AIRWORTHINESS LIMITATIONS, Data module code 12-B-04-00-00-00A-000A-A, dated September 28, 2015, of the Pilatus Model type – PC-12/47E MSN-1001-UP, Aircraft Maintenance Manual (AMM), Document No. 02300, 12- B-AM-00-00-00-I, revision 14, dated November 6, 2015.

(2) The limitations section revisions listed in paragraphs (f)(1)(i) and (f)(1)(ii) of this AD do the following:

(i) Establish inspections of the MLG attachment bolts,

(ii) Specify replacement of components before or upon reaching the applicable life limit, and

(iii) Specify accomplishment of all applicable maintenance tasks within certain thresholds and intervals.

(3) Only authorized Pilatus Service Centers can do the Supplemental Structural Inspection Document (SSID) as required by the documents in paragraphs (f)(1)(i) and (f)(1)(ii) of this AD because deviations from the type design in critical locations could make the airplane ineligible for this life extension.

(4) If no compliance time is specified in the documents listed in paragraphs (f)(1)(i) and (f)(1)(ii) of this AD when doing any corrective actions where discrepancies are found as required in paragraph (f)(2)(iii) of this AD, do these corrective actions before further flight after doing the applicable maintenance task.

(5) During the accomplishment of the actions required in paragraph (f)(2) of this AD, including all subparagraphs, if a discrepancy is found that is not identified in the documents listed in paragraphs (f)(1)(i) and (f)(1)(ii) of this AD, before further flight after finding the discrepancy, contact PILATUS AIRCRAFT LTD. at the address specified in paragraph (h) of this AD for a repair scheme and incorporate that repair scheme.

(6) Within the next 6 years time-in-service after [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER] (the effective date of this AD) or within the next 3 months TIS after [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER] (the effective date of this AD), whichever occurs later, inspect the MLG attachment bolts for cracks and corrosion take all necessary corrective actions.

(g) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) **Alternative Methods of Compliance (AMOCs):** The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; email: doug.rudolph@faa.gov.

(i) Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(ii) AMOCs approved for AD 2014-22-01, 39-18005 (79 FR 67343, November 13, 2014) are not approved as AMOCs for this AD.

(2) **Airworthy Product:** For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(h) Related Information

Refer to MCAI European Aviation Safety Agency (EASA) AD No. 2016-0083, dated April 28, 2016, for related information. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-7003. For service information related to this AD, contact PILATUS AIRCRAFT LTD., Customer Service Manager, CH-6371 STANS, Switzerland; telephone: +41 (0) 41 619 33 33; fax: +41 (0) 41 619 73 11; Internet:

<http://www.pilatus-aircraft.com> or email: SupportPC12@pilatus-aircraft.com. You may review copies of the referenced service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148.

Issued in Kansas City, Missouri, on May 27, 2016.

Melvin Johnson,
Acting Manager, Small Airplane Directorate,
Aircraft Certification Service.

[FR Doc. 2016-13249 Filed: 6/7/2016 8:45 am; Publication Date: 6/8/2016]